PATENT COOPERATION TREATY

10/009 320

From the INTERNATIONAL BUREAU

PCT

To:

Commissioner
US Department of Commerce
United States Patent and Trademark Office, PCT
2011 South Clark Place Room CP2/5C24
Arlington, VA 22202
ETATS-UNIS D'AMERIQUE

in its capacity as elected Office

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

Date of mailing (day/month/year) 05 December 2001 (05.12.01)	
International application No. PCT/FI01/00206	**Applicant's or agent's file reference**
International filing date (day/month/year) 01 March 2001 (01.03.01)	**Priority date** (day/month/year) 15 March 2000 (15.03.00)
Applicant LEHTO, Pekka	

1. The designated Office is hereby notified of its election made:

[X] in the demand filed with the International Preliminary Examining Authority on:

16 October 2001 (16.10.01)

[ ] in a notice effecting later election filed with the International Bureau on:

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2. The election [ ] was

[X] was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

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The International Bureau of WIPO **34, chemin des Colombettes** **1211 Geneva 20, Switzerland**	Authorized officer ALi SOLEIMAN
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38

Form PCT/IB/331 (July 1992)

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PATENT COOPERATION TREATY

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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	**FOR FURTHER ACTION** see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No.	International filing date *(day/month/year)*	(Earliest) Priority Date *(day/month/year)*
PCT/FI 01/00206	01/03/2001	15/03/2000
Applicant		
LEHTO, Pekka		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.

[X] It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**

   a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

   [ ] the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

   b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

   [ ] contained in the international application in written form.

   [ ] filed together with the international application in computer readable form.

   [ ] furnished subsequently to this Authority in written form.

   [ ] furnished subsequently to this Authority in computer readble form.

   [ ] the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

   [ ] the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. [ ] **Certain claims were found unsearchable** (See Box I).

3. [ ] **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

   [X] the text is approved as submitted by the applicant.

   [ ] the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

   [X] the text is approved as submitted by the applicant.

   [ ] the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No. 1

   [X] as suggested by the applicant.

   [ ] because the applicant failed to suggest a figure.

   [ ] because this figure better characterizes the invention.

   [ ] None of the figures.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/FI 01/00206

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: E04H 3/04, B60S 5/02
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: E04H, B60S, B65G, B67D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0580235 A1 (BOL, J.B.), 26 January 1994 (26.01.94), figure 3, abstract --	1-6
A	FI 94889 B (SAVON KONEHITSAUS OY), 31 July 1995 (31.07.95), figure 1, abstract, detail 4 --	1-6
A	NL 8501388 A (ALBERT SHOTMEYER TE HAWTHORNE), 16 December 1985 (16.12.85), figure 1, claim 1 --	1-6
A	US 2021544 A (G.S. CROWN), 19 November 1935 (19.11.35), figure 1, claim 1 --	1-6

[X] Further documents are listed in the continuation of Box C. [X] See patent family annex.

* Special categories of cited documents:
"A" document defining the general state of the art which is not considered to be of particular relevance
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"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed
"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
13 June 2001	11. 10. 2001

Name and mailing address of the International Searching Authority	Authorized officer
European Patent Office P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel(+31-70)340-2040, Tx 31 651 epo nl, Fax(+31-70)340-3016	Vilho Juvonen / MRo Telephone No.

Form PCT/ISA/210 (second sheet) (July 1998)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/FI 01/00206

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2959826 A (F. LARSEN ET AL), 15 November 1960 (15.11.60), figure 2, abstract ---	1-6
A	US 4986446 A (J.A. MONTGOMERY ET AL), 22 January 1991 (22.01.91), figure 2, abstract --- --------	1-6

SA [redacted]563

INTERNATIONAL SEARCH REPORT

Information on patent family members

28/05/01

International application No.
PCT/FI 01/00206

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0580235 A1	26/01/94	AT 126310 T	15/08/95
		CA 2100992 A	25/01/94
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		DK 580235 T	25/09/95
		ES 2078793 T	16/12/95
		GR 3017170 T	30/11/95
		US 5454205 A	03/10/95
FI 94889 B	31/07/95	AT 166296 T	15/06/98
		AU 5816694 A	26/09/94
		CZ 282980 B	17/12/97
		CZ 9502258 A	17/01/96
		DE 69318730 D,T	13/01/00
		DK 686105 T	08/03/99
		EP 0686105 A,B	13/12/95
		ES 2118375 T	16/09/98
		FI 930982 A	06/09/94
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		HU 218992 B	29/01/01
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		US 4901748 A	20/02/90
US 2021544 A	19/11/35	NONE	
US 2959826 A	15/11/60	NONE	
US 4986446 A	22/01/91	NONE	

US

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/FI 01/00206

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A	NL 8501388 A (ALBERT SHOTMEYER TE HAWTHORNE), 16 December 1985 (16.12.85), figure 1, claim 1 --	1-6
A	US 2021544 A (G.S. CROWN), 19 November 1935 (19.11.35), figure 1, claim 1 --	1-6

[X] Further documents are listed in the continuation of Box C. [X] See patent family annex.

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"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed
"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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"&" document member of the same patent family

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N E F Name and mailing address of the International Searching Authority
European Patent Office P.B. 5818 Patentlaan 2
NL-2280 HV Rijswijk
Tel(+31-70)340-2040, Tx 31 651 epo nl,
Fax(+31-70)340-3016

Authorized officer
Vilho Juvonen / MRo
Telephone No.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/FI 01/00206

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2959826 A (F. LARSEN ET AL), 15 November 1960 (15.11.60), figure 2, abstract -- US 4986446 A (J.A. MONTGOMERY ET AL), 22 January 1991 (22.01.91), figure 2, abstract -- --------	1-6 1-6

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INTERNATIONAL SEARCH REPORT

Information on patent family members

28/05/01

International application No.
PCT/FI 01/00206

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0580235 A1	26/01/94	AT 126310 T	15/08/95
		CA 2100992 A	25/01/94
		DE 69300356 D,T	21/03/96
		DK 580235 T	25/09/95
		ES 2078793 T	16/12/95
		GR 3017170 T	30/11/95
		US 5454205 A	03/10/95
FI 94889 B	31/07/95	AT 166296 T	15/06/98
		AU 5816694 A	26/09/94
		CZ 282980 B	17/12/97
		CZ 9502258 A	17/01/96
		DE 69318730 D,T	13/01/00
		DK 686105 T	08/03/99
		EP 0686105 A,B	13/12/95
		ES 2118375 T	16/09/98
		FI 930982 A	06/09/94
		HU 72774 A	28/05/96
		HU 218992 B	29/01/01
		HU 9502582 D	00/00/00
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		PL 310532 A	27/12/95
		US 6105602 A	22/08/00
		WO 9420341 A	15/09/94
NL 8501388 A	16/12/85	JP 61050855 A	13/03/86
		US 4901748 A	20/02/90
US 2021544 A	19/11/35	NONE	
US 2959826 A	15/11/60	NONE	
US 4986446 A	22/01/91	NONE	

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(71) Applicant and
(72) Inventor: LEHTO, Pekka [FI/FI]; Alatie 22, FIN-02360 Espoo (FI).

(74) Agent: LAITINEN, Pauli, S.; Patentti-Laitinen OY, P.O. Box 29, FIN-02771 Espoo (FI).

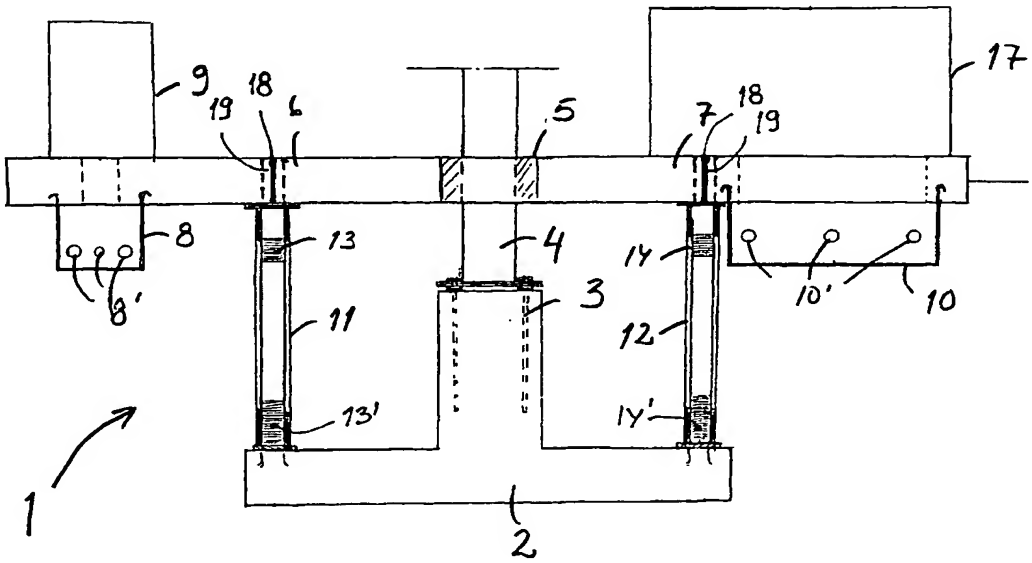
(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:
— *without international search report and to be republished upon receipt of that report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SYSTEM AND METHOD SPECIFICALLY INTENDED FOR THE CONSTRUCTION OF FUEL DISTRIBUTION FORECOURTS



(57) Abstract: A system and method specifically intended for the construction of fuel distribution forecourts, in which the forecourt contains at least one distribution pump (17), possibly an attached automatic dispenser (9), a pillar (4), which is specifically installed onto a concrete footing, to support the roof and necessary electrical and pipework systems for the drawing of fuel from the fuel storage tank and dispensing to motor vehicles and equivalent. The pumps (17), automatic dispenser (9) and other necessary ground-based equipment are installed on the island (6, 7), which is in turn supported (11, 12) on the roof's concrete footing.

WO 01/69012 A2

System and method specifically intended for the construction of fuel distribution forecourts.

This invention relates to a system and method specifically intended for the construction of fuel distribution forecourts. Specifically, this applies in particular to a forecourt from which fuel is distributed to motor vehicles.

Traditionally forecourts have been constructed in such a way that the islands are cast in situ or a modular base assembled for the forecourt sheltering roof structures. After this, filling work is performed, the roof's pillars are erected and installation wells set into the sealed foundations. Subsequently, the modular construction island is assembled or the island is cast above the installation well. After the installation of the island the distribution devices are installed: pumps, automatic dispensers and other devices.

This technique is a slow, multi-stage method, because it includes several consecutive work phases which mostly depend at least upon the previous phase. Installations to the installation wells can only be made after all of the forecourt structures have been sealed.

The problem with this technique is that, in addition to the large amount of work and prolonged work stages, the possibility of subsidence of the forecourt's constructed layer, which causes subsidence of the island and installation wells, along with all of the ground-based structures and could, at worst, result in damage to the pipe system.

There is also a system in use with the prior art, in which the load of the forecourt roof pillars is taken onto the fuel storage tank and, via a reinforced concrete structure which runs along the length of the sides of the reservoir, right down to the ground. In this system, the fuelpipe system is mostly located within a service-shaft constructed above the reservoir and the island is fitted over this.

When constructing according to the state of the art described above, the roof's foundations and the main service shaft are installed at the time of installation of the storage tank. The excavation for the storage tank requires xtensive and deep

excavation-work concomitantly with the erection of the roof. Also, when using the prior art, the forecourt's protective membrane cannot be fitted beneath the island because it is fixed over the storage tank.

Another problem with the prior art is also that there is no possibility of installing distribution equipment in an economical way; pumps, automatic dispensers etc. can only be fitted to the island after the forecourt surfaces have been completed.

In addition, repair work and alterations are labour-intensive and difficult to accomplish in petrol stations produced by the prior art, because the mechanism-containing island and storage tank must be removed from use during the repositioning of the equipment. Furthermore, the recycling and re-use of old components is difficult and expensive.

The purpose of this invention is to remove the problems associated with the prior art and create a completely new technique for the construction of a load-bearing forecourt, in which the load-bearing structures are effectively utilized to support the non-load-bearing components. An additional purpose is to allow an adjustable structure if desired. According to this invention, it is intended to be able to produce a forecourt, which can be constructed to user-readiness faster than by the prior art.

The above mentioned and other advantages and benefits of this invention are thus achieved as is characteristically stated in the attached claims.

The basis of this invention is that adjustable columns are installed on the footing element of the canopy and the load-bearing island is placed on the adjustable columns at the adjusted and desired height. The columns of the canopy can now be installed on the foundation, as in the prior art. The island contains pre-fitted sumps and fittings necessary for the distribution equipment.

There follows a detailed description of the invention with references to the attached drawings, in which one of the possible applications of the invention is illustrated in simplified figures. It is clear that this invention is not by any means restricted to just the one embodiment but can be adapted in many ways whilst still remaining within the

scope of the invention's original idea and patent conditions.

Figure 1 shows a side-view of one of this invention's applications;

Figure 2 shows the same structure as in figure 1 as seen when rotated through 90° and with its structure simplified;

Figure 3 shows a stripped down version of the same structure, as seen when rotated 90° in the other direction (i.e. in the opposite direction to that in figure 2);

In figure 4, the same structure as in figure 3 is shown as it appears when it is fitted to the ground and with equipment connected to it; and

In figure 5, the structure of the environment-protecting membrane is illustrated, according to one permutation of this invention.

Figure 1 shows the structure and connection of two components of this invention in apparatus 1. The foundation is formed from the roof's footing elements 2. Two externally threaded sleeves 13' and 14' are fitted to the footing element 2, as shown in the illustration. After the installation of the footing element 2, the adjustable tubes 11, 12 are screwed into the sleeves to the required level. The adjustable tubes 11, 12 screw into the sleeves, because their external diameter is appropriate to fit the sleeve's thread. The adjustable tubes 11, 12 can be sheathed, if required, within appropriately sized rubber tubing.

If the additional adjustable pieces 13, 14 are required, which are of an appropriate external diameter to fit the adjustable tubes and are economically fitted with steel-plates and which abut the islands 6, 7, these can be fitted to the upper ends of the adjustable tubes. The steel-plate's size is adjusted according to the shape and size of the installed islands. Also shown in Figure 1 there is the adjusting rod 18 placed through a hole 19 in the island. This rod 18 can be used for after adjusting the island, when necessary, without the need for big scale operations. The adjusting can be simply made from above the island.

Next the islands 6, 7 can be placed into position. The island contains sumps 8 and 10 for the fitting of the distribution equipment, at an appropriate distance from the adjustable tubes 11 and 12. The islands 6, 7 is a particularly reinforced concrete.

The island is not fixed but freely installed on top of the previously described steel plates. The island contains the necessary hole 5 for the roof structure pillar for the pillars subsequent installation. An alternative method is that the island can be assembled from two separate parts 6 and 7, in which case the load-bearing pillar 4 for the forecourt roof is first placed into position in the footing 2, for example by the conventional method of fixing with bolts 3 and by welding two horizontal plates onto either side of the steel pillar, between which the head of the island is inserted and, if necessary, fixed firmly into position.

If the hole method is used, the lightweight structure's elements only support their own weight and the weight of the equipment. There is no intention of placing further weight, even at a later stage, onto the island. The distribution pump 17 and automatic dispenser 9 or other necessary infrastructure are also pre-fitted to the islands 6, 7.

After this, filling takes place right up to the level of the top of the roof's footing and the roof pillar 4 for the supply mechanism's familiar elements is erected, if it has not already been erected as described previously.

After this, the forecourt building layers and sealing membrane 16, which can be fitted congruently beneath the pumps 6, 7, are constructed. The position of the membrane is illustrated in both figures 4 and 5. The membrane 16 also goes conveniently underneath the installation wells 8, 10. The membrane 16 is also sealed at the location of the adjustable tube 11, 12, because a plastic tube is fitted over these. The membrane 16 is welded to the tube or sealed using, for example, installation sealant, as with the prior art.

Hardcore is laid for the forecourt drainage and absorbance and gas collection tubes for the distribution mechanism and other equipment are fitted above the membrane 16. After this, the surface layers are laid. The traditional equipment and pipework etc. are excluded from the illustrations, apart from the tube 15, which is diagrammatically

represented in figure 4 and which, as can be seen, is sealed and goes conveniently through the fitting hole shown in figure 3

With the help of this modular system, the performance of mechanical fitting work independently of the construction work is made possible. The completed island as a finished structure, at least partly bears on the ground.

It is clear that in constructions of the nature of that illustrated here, particular attention is given to the effects of frost, for example, as the structures' foundations extend to a depth beyond that which is penetrated by frost.

The invention can be adapted in many ways. So although the brazing of the adjustable tube's 11, 12 lower sections 13', 14' to the concrete-footing is shown in the illustrations as an economical attachment option, other means of attachment, such as welding, bolting etc. can also be considered.

The installation wells 8, 10 which are shown in the illustrations, are specifically of solvent resistant plastic, from which generally quite light structures can be made. The fitting holes 8', 10' for the fuel-pipes, electrical and telecommunications and other necessary components, are ready fitted within the installation wells 8, 10. The size of the installation wells is chosen according to requirements. Typically there are 1-4 installation pits per island. The illustration shows how the sumps 8, 10 are fixed to the concrete islands 6, 7.

When the protective membrane 16 has been fitted to the ground, all of the fuel-pipes and electric system pipes which are fitted to the installation wells 8, 10 of the islands 6, 7, remain above the membrane 16, which ensures that environmental damage is avoided, even if a pipe or other structure should begin to leak. Obviously the forecourt includes all of the monitoring equipment which are required by the law and regulations, against possible accidents. These are not, however, described or illustrated here.

The figure illustrates how the protective membrane 16 continues unbroken beneath the islands and sumps. The load-bearing pillar is covered with a protective

membrane, which is joined to the forecourt protective membrane 16. Protective pipes are used around the installation pipes of the modular system such that it is also joined to the protective membrane 16.

With the aid of this invention, considerable benefits are attained. With the aid of this invention, the distribution equipment and the forecourt can be constructed rapidly and the distribution equipment rapidly brought into use. This invention offers the possibility of combining and installing independently of each other the distribution equipment associated with fuel distribution and the station canopy's constructional engineering.

A forecourt which is sealed and well protected, in accordance with environmental regulations, is constructed with the aid of this modular system. The forecourt equipment is divided into separate forecourt structures with the aid of this modular construction, whereby forecourt subsidence is not able to damage pipework or installation wells, nor do they cause uneven subsidence of the islands.

The invention combines the pipework and electrical installations in the pump and automatic dispenser with the construction of the island and canopy foundation. The installations for the distribution equipment can be pre-fitted in this modular system. Only the fitting of the pump's intake pipes and petrol-vapor recovery pipes to the island take place *in situ*. The elements are fitted to each other without special supports or structures. Forecourt filling work can be performed immediately after the installation of the islands and other work can be performed on the island independently of the filling work.

In addition, the island made according to this invention can be set precisely at the desired height and adjustments to the height level during its working life are easily made. The final carrying capacity of the ground-based island is accomplished upon the completion of the filling work.

The installation of the island does not depend upon the depth of the roof's foundation but can be adjusted with the aid of the adjustment system of this invention.

With the aid of this invention, the canopy, its footing and the island, complete with its

installation wells, can be easily and rapidly reusable and recyclable also in a subsequent location.

Subsequent alterations to be made to the station's forecourt are easy to accomplish, because the island, with the aid of its installation pipes, remains in its position in the air, even if the surrounding soil is excavated. By means of this artifice, considerable economical savings are achieved, because pumps, automatic dispensers and other equipment do not need to be dismantled from their footings.

Claims

1. A system especially for the construction of fuel distribution forecourts, in which the forecourt contains at least one petrol pump (17), possibly an automatic dispenser connected to it (9), particularly for a pillar (4) erected on a concrete footing (2) to support the canopy and necessary electrical and pipework systems for the drawing of fuel from the fuel storage tank and for distribution to motor-vehicles or equivalent, **characterized** in that the pumps (17), automatic dispenser (9) and other necessary ground-based equipment are fitted to the island (6,7), which is supported by means of adjustable columns on the pillar's (4) concrete island (2).

2. A system according to claim 1, **characterized** in that the columns (11,12) are fitted with a plastic surface to enable the possibility of sealed connection to the protective membrane (16), for example, by welding to the membranes plastic surface.

3. A system according to claim 1, **characterized** in that the island (6,7) is understood to include pre-fitted fuel pumps, automatic dispensers and sumps (8,10).

4. A system according to any of the above claims, **characterized** in that there are also adjusting rods (18) coming through holes (19) in the island for making the after installation adjusting of island possible.

5. A method for the accomplishment of a system specifically intended for fuel distribution, whereby the system includes at least one distribution pump (17), possibly an automatic dispenser (9) connected to it, a pillar (4), specifically fitted to a concrete footing (2) to support the canopy and necessary electrical and pipework for the drawing of fuel from the fuel storage tank and dispensing to motor vehicles or equivalent, for which the footing for the roof is installed to the desired depth, **characterized** in that the island (6,7), which contains pre-fitted pumps (17), automatic dispensers (9) and other necessary ground based equipment, is supported with the aid of vertically adjustable, column-like member's (11,12) which are attached to the pillar's (4) concrete footing (2).

6. A method according to claim 5, **charact rized** in that a sealed protective

membrane (16), which is welded to or otherwise sealed to the footing (2) or to the pillar (4) and also to the columns (11,12) and the sumps (8,10), is an essential component of this system.

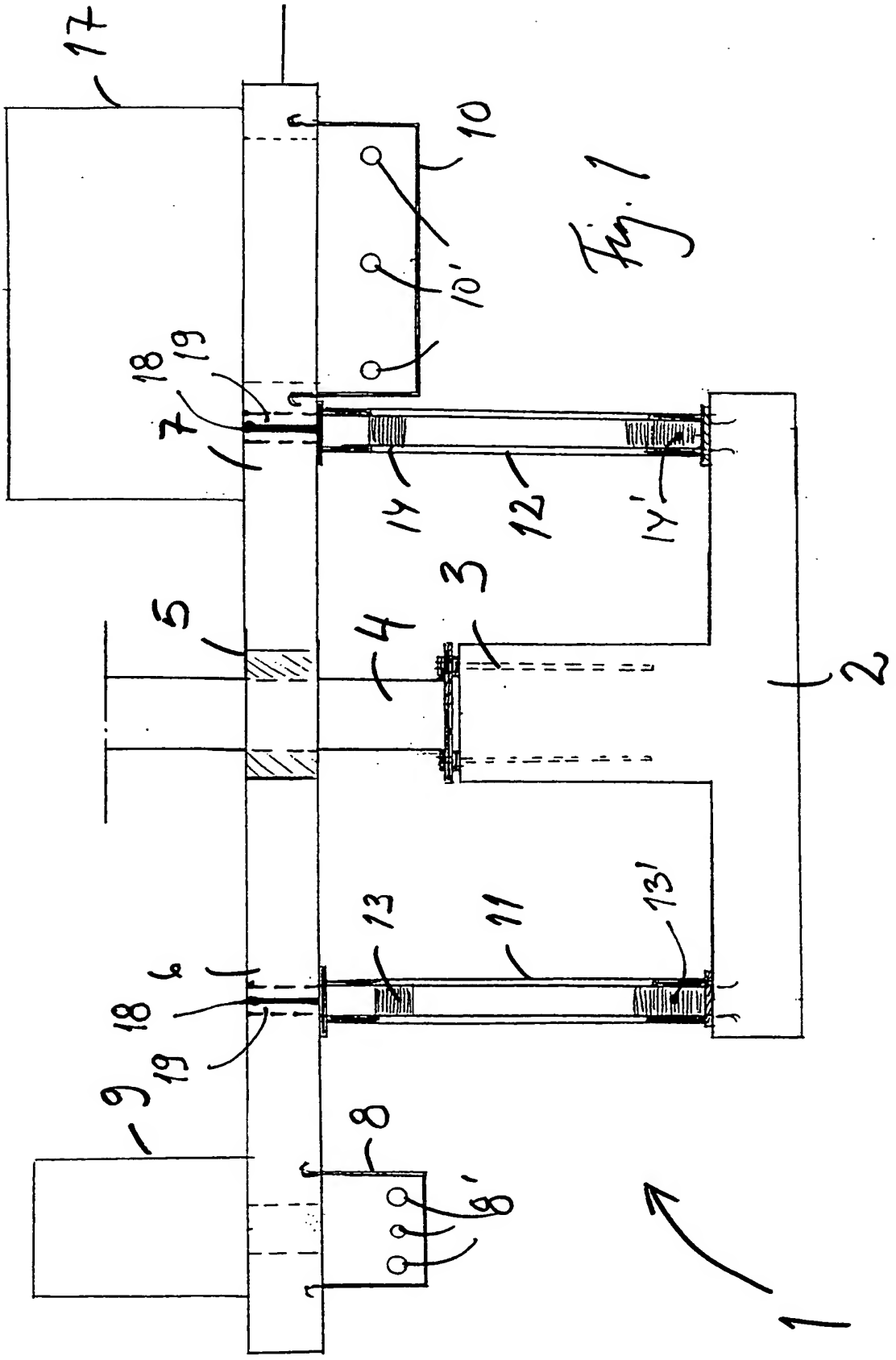


Fig. 1

Fig. 2

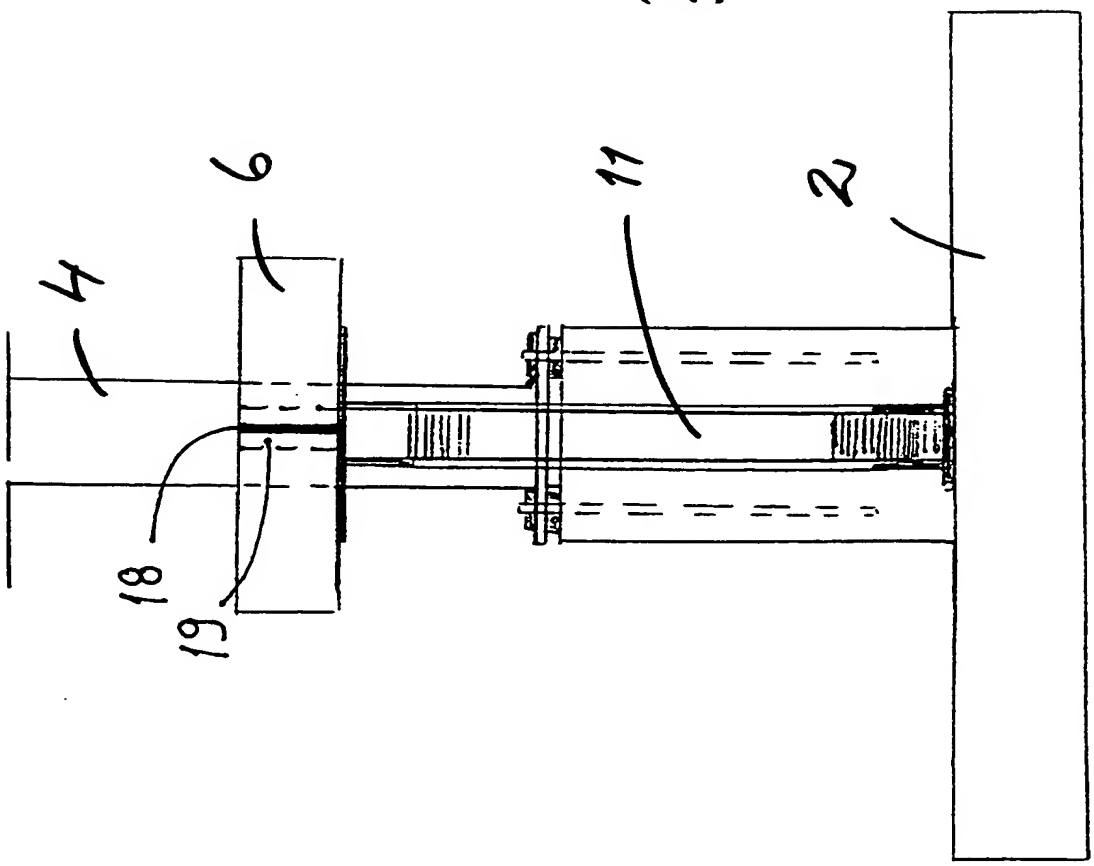


Fig. 3

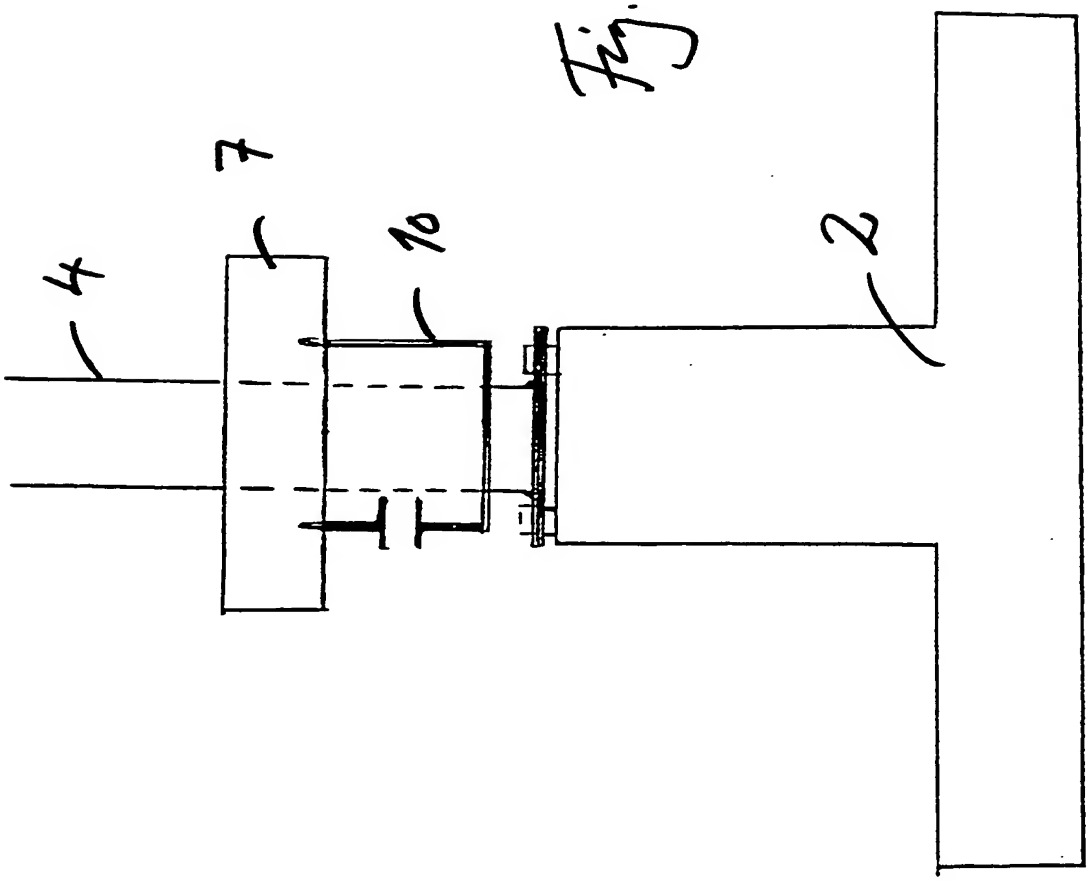
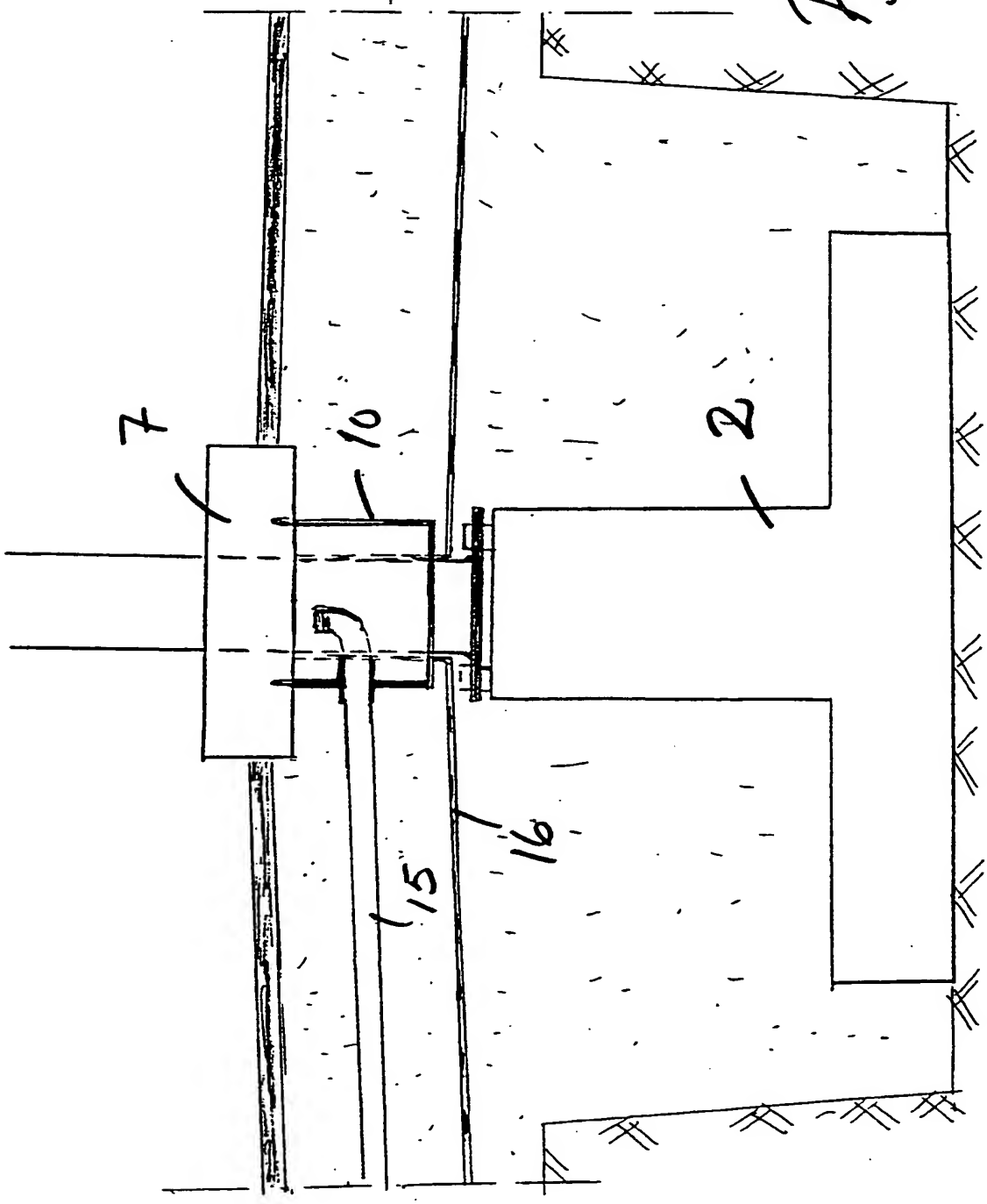


Fig. 4



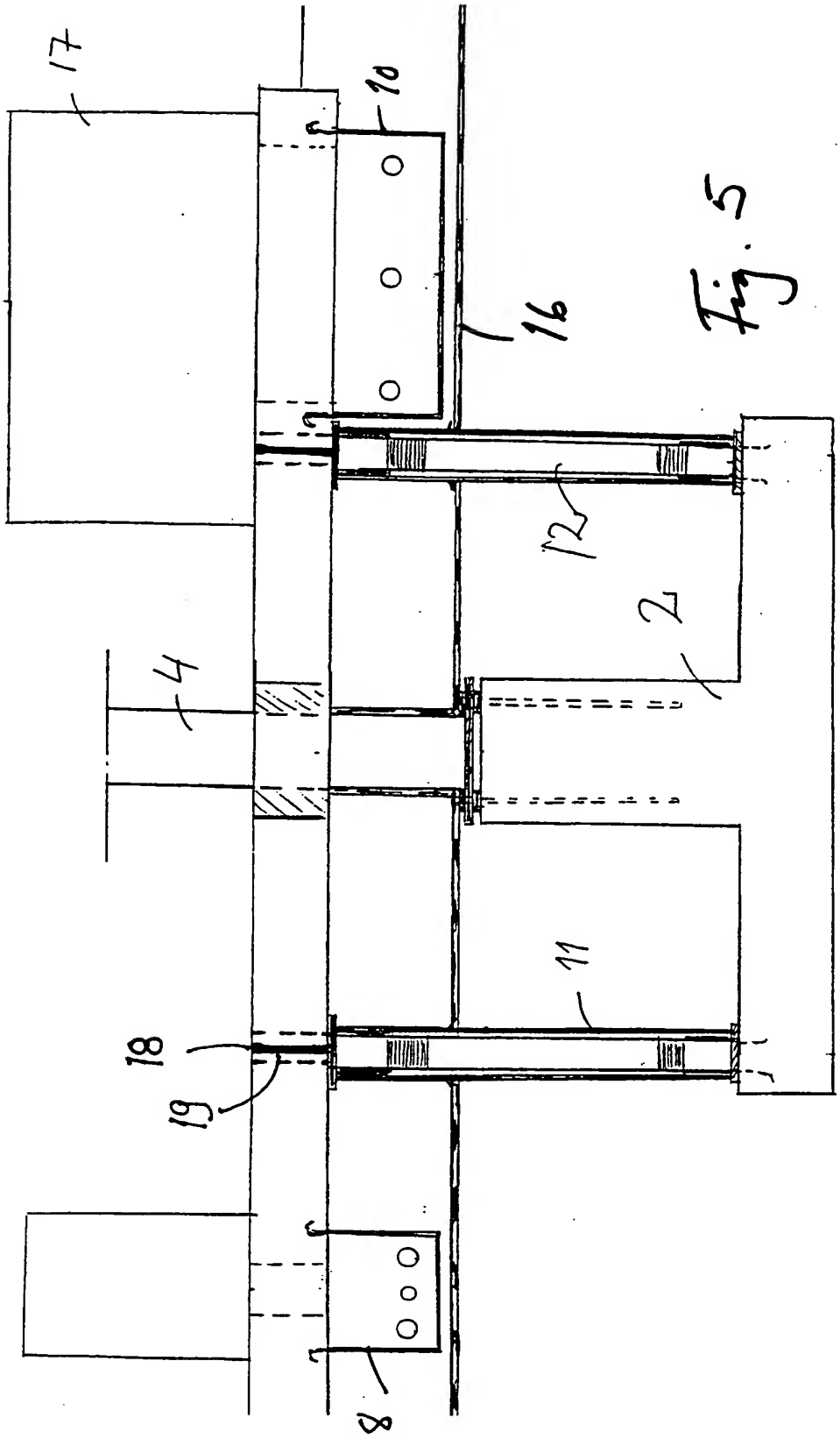


Fig. 5

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(71) Applicant and
(72) Inventor: LEHTO, Pekka [FI/FI]; Alatie 22, FIN-02360 Espoo (FI).

(74) Agent: LAITINEN, Pauli, S.; Patentti-Laitinen OY, P.O. Box 29, FIN-02771 Espoo (FI).

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SYSTEM AND METHOD SPECIFICALLY INTENDED FOR THE CONSTRUCTION OF FUEL DISTRIBUTION FORECOURTS

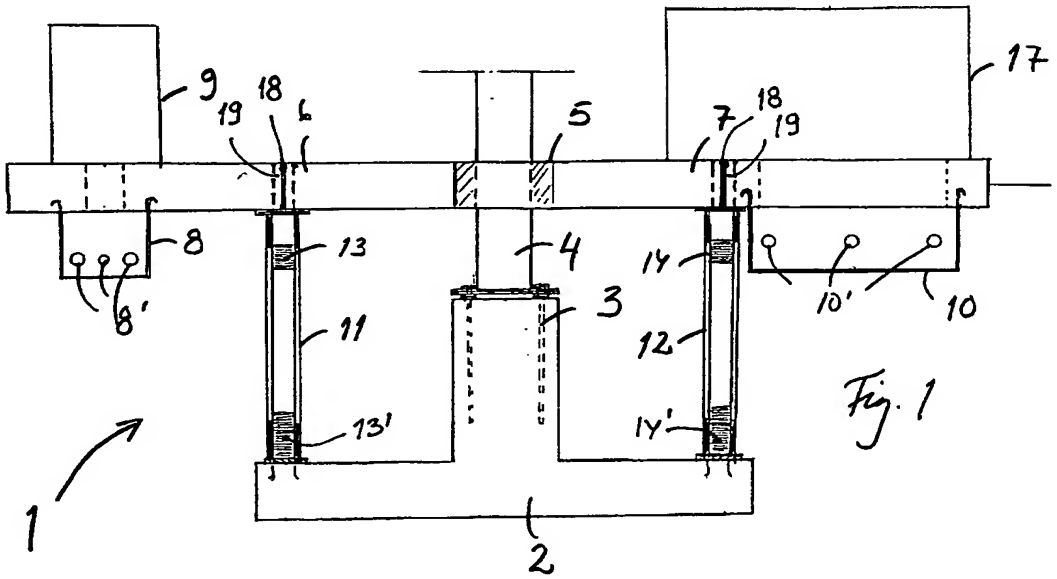

Fig. 1

(57) Abstract: A system and method specifically intended for the construction of fuel distribution forecourts, in which the forecourt contains at least one distribution pump (17), possibly an attached automatic dispenser (9), a pillar (4), which is specifically installed onto a concrete footing, to support the roof and necessary electrical and pipework systems for the drawing of fuel from the fuel storage tank and dispensing to motor vehicles and equivalent. The pumps (17), automatic dispenser (9) and other necessary ground-based equipment are installed on the island (6, 7), which is in turn supported (11, 12) on the roof's concrete footing.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/FI 01/00206

A. CLASSIFICATION OF SUBJECT MATTER

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: E04H, B60S, B65G, B67D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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A	NL 8501388 A (ALBERT SHOTMEYER TE HAWTHORNE), 16 December 1985 (16.12.85), figure 1, claim 1 --	1-6
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[X] Further documents are listed in the continuation of Box C. [X] See patent family annex.

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Date of the actual completion of the international search	Date of mailing of the international search report
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INTERNATIONAL SEARCH REPORT

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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